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William Morris Davis, the recipient of the last Hayden Medal, was elected a correspondent and Émile Henri Sauvage and William Bullock Clark, correspondents, died.

No international scientific congresses were held and no invitations whatever to participate in important scientific activities were received by the Corresponding Secretary.

Thanks were received from the University of Pennsylvania Chapter of the Society of the Sigma Xi and the American Society of Ichthyologists and Herpetologists for courtesies received in connection with their meetings held in the Academy's building.

Considerable scientific information was furnished to inquiring correspondents.

Statistics of the correspondence follow:

Communications received:

Acknowledging the receipt of the Academy's publications.....	149
Transmitting publications to the Academy.....	24
Requesting exchanges or the supply of deficiencies.....	2
Invitations to learned gatherings, celebrations, etc.....	0
Notices of deaths of scientific men.....	1
Circulars concerning the administration of scientific and educational institutions, etc.....	13
Photographs and biographies of correspondents.....	4
Letters from correspondents.....	6
Miscellaneous letters.....	58
Total received.....	257

Communications forwarded:

Acknowledging gifts to the library.....	1069
Requesting the supply of deficiencies.....	147
Acknowledging gifts to the museum.....	123
Acknowledging photographs and biographies.....	2
Letters of sympathy or congratulation, addresses, etc.....	1
Diplomas and notices of election of correspondents and delegates' credentials.....	1
Miscellaneous letters.....	107
Annual reports and circulars sent to correspondents.....	180
Total forwarded.....	1,630

Respectfully submitted,

J. PERCY MOORE, *Corresponding Secretary.*

# REPORT OF THE LIBRARIAN.

The Librarian has stated in the report of the Recording Secretary that he has been compelled by a disabling affection since last September to depend on the Assistant Librarian, William J. Fox, for the performance of the duties of both offices, a service which he has

performed with efficiency and accuracy. The statistics which follow have been prepared by Mr. Fox. It is hoped the Librarian will be able to resume his services in the Academy at the beginning of the year.

Total additions, 5,902. 569 were volumes, 5,185 were pamphlets and parts of periodicals, and 147 were maps, and 1 sheet.

They were received from the following sources:

Exchanges.....	2,541	War Department.....	5
Isaiah V. Williamson Fund.....	1,190	Edward J. Nolan.....	5
Estate of Benjamin Sharp.....	750	American Iron and Steel Institute.....	5
United States Department of Agriculture.....	581	Lowell Observatory.....	5
General Appropriation for purchase of books.....	97	Publication Committee of the Academy.....	5
Authors.....	78	Nela Research Laboratory.....	5
American Entomological Society.....	73	Samuel G. Gordon.....	5
Editors.....	71	Mrs. Samuel R. Shipley.....	5
United States Bureau of Education.....	65	University of Michigan.....	5
Library of Congress.....	43	Queensland Department of Mines.....	4
Illinois State Geological Survey.....	43	Commissioners of Fisheries and Game, Mass.....	4
James Aitken Meigs Fund.....	25	Scripps Institute for Biological Research.....	4
Imperial Department of Agriculture of the British West Indies.....	25	Imperial Geological Survey of Japan.....	4
Pennsylvania Department of Agriculture.....	24	Clarence B. Moore.....	4
Thomas B. Wilson Fund.....	22	New Jersey Department of Conservation and Development....	3
Secretaria de Fomento, Mexico.....	22	Indiana University.....	3
Oklahoma Geological Survey....	22	Danish Government.....	3
New York Agricultural Experiment Station.....	18	Colorado Museum of Natural History.....	3
Dr. Henry Skinner.....	14	Commission of Conservation, Canada.....	3
Pennsylvania Department of Health.....	14	Michigan Geological and Biological Survey.....	3
Scientific Society of San Antonio.....	13	Henry A. Pilsbry.....	3
California State Commission of Horticulture.....	12	California Fish and Game Commission.....	3
Illinois State Geological Survey.....	12	University of Tennessee.....	3
Pan-American Union.....	12	Bermuda Biological Station for Research.....	3
Frank J. Keeley.....	11	San Diego Society of Natural History.....	2
Pennsylvania State Library.....	10	Cuerpo de Ingenieros de Minas del Peru.....	2
Vermont Agricultural Experiment Station.....	9	Geological Survey of Alabama..	2
Trustees of the British Museum.....	9	Wistar Institute of Anatomy and Biology.....	2
Comissão de Linhas Telegraficas Estrategicas de Matto Grosso ao Amazonas...	9	Henry Tucker.....	2
David Jayne Bullock.....	9	Department of Trade and Customs, Australia.....	2
United States Department of the Interior.....	8	Delaware Valley Ornithological Club.....	2
United Department of Commerce and Labor.....	7	Argentine Government.....	2
Nova Scotia Department of Agriculture.....	7	William J. Fox.....	2
University of Wyoming.....	6		
George Vaux, Jr.....	6		

South Dakota State College of Agriculture.....	2	Zoological Society of Philadelphia.....	1
Department of Marine and Fisheries, Ottawa.....	1	Charles M. Burns.....	1
Washington Academy of Sciences.....	1	Coleman Sellers, Jr.....	1
Iowa Geological Survey.....	1	Witmer Stone.....	1
Pennsylvania Water Supply Commission.....	1	Government of India.....	1
The Southwest Museum.....	1	Government of Formosa.....	1
Department of Fisheries of Bengal, etc.....	1	Justus Perthes' Geographische Anstalt.....	1
Mississippi State Geological Survey.....	1	Geological Survey of Georgia.....	1
Boston City Hospital.....	1	Westwood Astrophysical Observatory.....	1
Observatorio de Madrid.....	1	North Carolina Geological and Economic Survey.....	1
Western Reserve University.....	1	Warren Academy of Sciences.....	1
Henry Fairfield Osborn.....	1	Board of Water Supply, New York City.....	1
George M. Greene.....	1	Game Commissioners of Pennsylvania.....	1
Pennsylvania Department of Forestry.....	1	Charles W. Richmond.....	1
United States Brewers' Association.....	1	Thornwall Museum.....	1
Delaware County Institute of Science.....	1	Carl Hering.....	1
		Estacion Sismologica de Cartuja.....	1

These additions have been distributed to the various departments of the library as follows:

Journals.....	3,434	Physical Sciences.....	34
Agriculture.....	768	Ichthyology.....	32
Geology.....	409	Mammalogy.....	23
Entomology.....	252	Medicine.....	19
Anatomy and Physiology.....	203	Voyages and Travels.....	19
General Natural History.....	134	Mathematics.....	14
Geography.....	130	Chemistry.....	13
Botany.....	82	Herpetology.....	11
Helminthology.....	75	Mineralogy.....	9
Conchology.....	71	Bibliography.....	5
Anthropology.....	63	Philology.....	1
Ornithology.....	38	Miscellaneous.....	63

Some of the more important works received are:

Mededeelingen van de Rijksopsporing van Delfstoffen. Holland.  
 Thorburn, A. British Birds. 4 vols.  
 Bateman, J. The Orchidaceæ of Mexico and Guatemala. Folio. 1843.  
 Aristotle. Totius Naturalis Philosophiæ in Physicam Aristotelis Epitome, etc. Hieronymo Vuildenbergio Aurimontano autore. 1544.  
 Rafinesque, C. S. Analyse de la Nature. 1815.  
 Reichenbach, H. G. L. Zoologie oder Naturgeschichte des Thierreichs. 2 vols. in one. Dresden, etc. 1828-36.  
 Palæontographica Americana.

The following journals are new to the collection:

Abstracts of Bacteriology. Baltimore.  
 Annales du Service des Epiphyties.  
 Association of American Geographers, Annals.  
 Bermuda Biological Station for Research, Contributions. Cambridge.  
 British Mycological Society, Transactions.  
 Bulletin Biologique de la France et de la Belgique. Paris.

Department of Agriculture, Ceylon. Leaflet.  
Dublin Quarterly Journal of Science.  
Entomological Society of Nova Scotia, Proceedings.  
Genetics. Princeton.  
Institut Colonial de Marseille, Bulletin.  
Junta de Ciencias Naturals, Barcelona. Series Biologico-Oceanografica; Series Botanica; Series Zoologica.  
Magasin Encyclopédique. 122 vols. 1795-1816.  
Nova Scotia Department of Agriculture, Bulletin.  
Osborn Botanical Laboratory, Yale University, Contributions.  
Midland Naturalist (London). 16 vols. 1878-1893.  
Rivista Italiana di Speleologia. Bologna.  
Royal Society of Western Australia, Journal and Proceedings.  
Revue Zoologique Russe. Moscow.  
Scientific Society of San Antonio, Bulletin.  
Secretaria de Fomento, etc. Mexico, Boletín Oficial.  
Sutton and Sons, Bulletin. Reading, England.  
University of Michigan Museum of Zoology, Miscellaneous Publications.  
Westwood Astrophysical Observatory, Occasional Scientific Papers.

Sixty-five works in seventy-one volumes have been loaned. 1146 works in 1678 volumes have been used by the attachees in connection with their studies.

Five hundred and seventy-three volumes have been bound.

Mr. Furman S. Wilde, Assistant in the Library, has been serving in the National Army since November 3, 1917.

Miss H. N. Wardle has kindly rendered efficient aid as caretaker of the Library during the Assistant Librarian's absence.

EDWARD J. NOLAN, *Librarian*.

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#### REPORT OF THE CURATORS.

The Curators, at the close of the present year, are able to report the collections and buildings in their care, in excellent condition. The museum staff has been constantly employed in the study, arrangement, and display of the collections in the various departments as described in detail below.

Most of this work has consisted in carrying out the arrangement of material in the new study and exhibition cases, as outlined in last year's report, but much new material has also been cared for.

At the session of the State Legislature, which closed early in the past summer, an appropriation of \$15,000 was made for the needs of the Academy. From this fund it was possible to paint the entire outside wood and iron work of the building, which was much in need of attention. Plans have been prepared for necessary alterations in the heating plant, which will be carried out at once. The consideration of other improvements made possible by this appropria-